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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P03038	FOR FURTHER AC	NOITC	See Form PCT/IPEA/416			
International application No. PCT/NO2004/000350	International filing date (day/month/year)	Priority date (day/month/year) 26.11.2003			
International Patent Classification (IPC) or national classification and IPC C25C3/06						
Applicant NORSK HYDRO ASA et al.						
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 						
2. This REPORT consists of a total	of 4 sheets, including th	nis cover sheet.				
3. This report is also accompanied b	y ANNEXES, comprisir	ıg:	İ			
a. 🛘 sent to the applicant and t		•				
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b. (sent to the International E sequence listing and/or table Box Relating to Sequence	oles related thereto, in c	omputer readable form	r of electronic carrier(s)) , containing a only, as indicated in the Supplemental nstructions).			
4. This report contains indications re	4. This report contains indications relating to the following items:					
☐ Box No. 1 Basis of the opi	nion					
☐ Box No. II Priority						
ł	-	rd to novelty, inventive s	step and industrial applicability			
Box No. IV Lack of unity of						
applicability; cit	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain documents cited						
☐ Box No. VII Certain defects in the international applic						
☐ Box No. VIII Certain observations on the international application						
Date of submission of the demand		Date of completion of this	report			
13.06.2005		02.09.2005				
Name and mailing address of the international		Authorized Officer	the Patenten			
preliminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465		Hammerstein, G Telephone No. +49 89 23				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/NO2004/000350

	Box No. I Basis of the repo	rt		
1.	With regard to the language, t filed, unless otherwise indicate	ith regard to the language , this report is based on the international application in the language in which it wa ed, unless otherwise indicated under this item.		
	which is the language of a international search (un publication of the intern	Inslations from the original language into the following language, translation furnished for the purposes of: Inder Rules 12.3 and 23.1(b)) Inational application (under Rule 12.4) y examination (under Rules 55.2 and/or 55.3)		
2.	With regard to the elements* of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):			
	Description, Pages			
	1-8	as originally filed		
	Claims, Numbers			
	1-10	as originally filed		
	Drawings, Sheets			
	1/1	as originally filed		
	☐ a sequence listing and/or a	any related table(s) - see Supplemental Box Relating to Sequence Listing		
3.	☐ The amendments have red the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/fig ☐ the sequence listing (sequence any table(s) related to the sequence of the s	pecify):		
4.	☐ This report has been estall had not been made, since they Supplemental Box (Rule 70.2(☐ ☐ the description, pages☐ the claims, Nos.☐ the drawings, sheets/fig☐ ☐ the sequence listing (so ☐ any table(s) related to a	gs pecify):		
	* If item 4 applies,	some or all of these sheets may be marked "superseded."		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/NO2004/000350

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 1-10

No: Claims

Inventive step (IS) Yes: Claims 1-10

No: Claims

Industrial applicability (IA) Yes: Claims 1-10

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/NO2004/000350

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The document US-A-4221641 is regarded as being the closest prior art to the subject-matter of claims 1 and 4 in that it discloses (column 3, line 7 to column 4, line 60 and column 8, line 55 to column 9, line 3) a method and apparatus for replacing spent anodes in an aluminium electrolysis cell. The apparatus comprises a crane and gripping means for removing and inserting the anodes and an optical passage detector for detecting the presence of the anode at particular levels. From the difference in levels the insertion height of the new anode can be determined. A laser beam may be used as an additional optical detector.

The feature distinguishing the subject-matter of claims 1 and 4 is the equipment for determining the length of the spent anode and the new anode and the combination with a PLC to determine the insertion height of the new anode from the measured data.

The subject-matter of independent claims 1 and 4 is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention may be regarded as providing a precise positioning equipment which is interfaceable with a microprocessor.

The solution to this problem proposed in claims 1 and 4 of the present application is considered as involving an inventive step (Article 33(3) PCT) since it is not suggested by the prior art documents.

Claims 2-3 and 5-10 are dependent on claims 1 and 4 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

It would appear that the present application rightfully claims its priority date such that US2004/0211663 is not considered as state of the art relevant under Article 33 PCT.